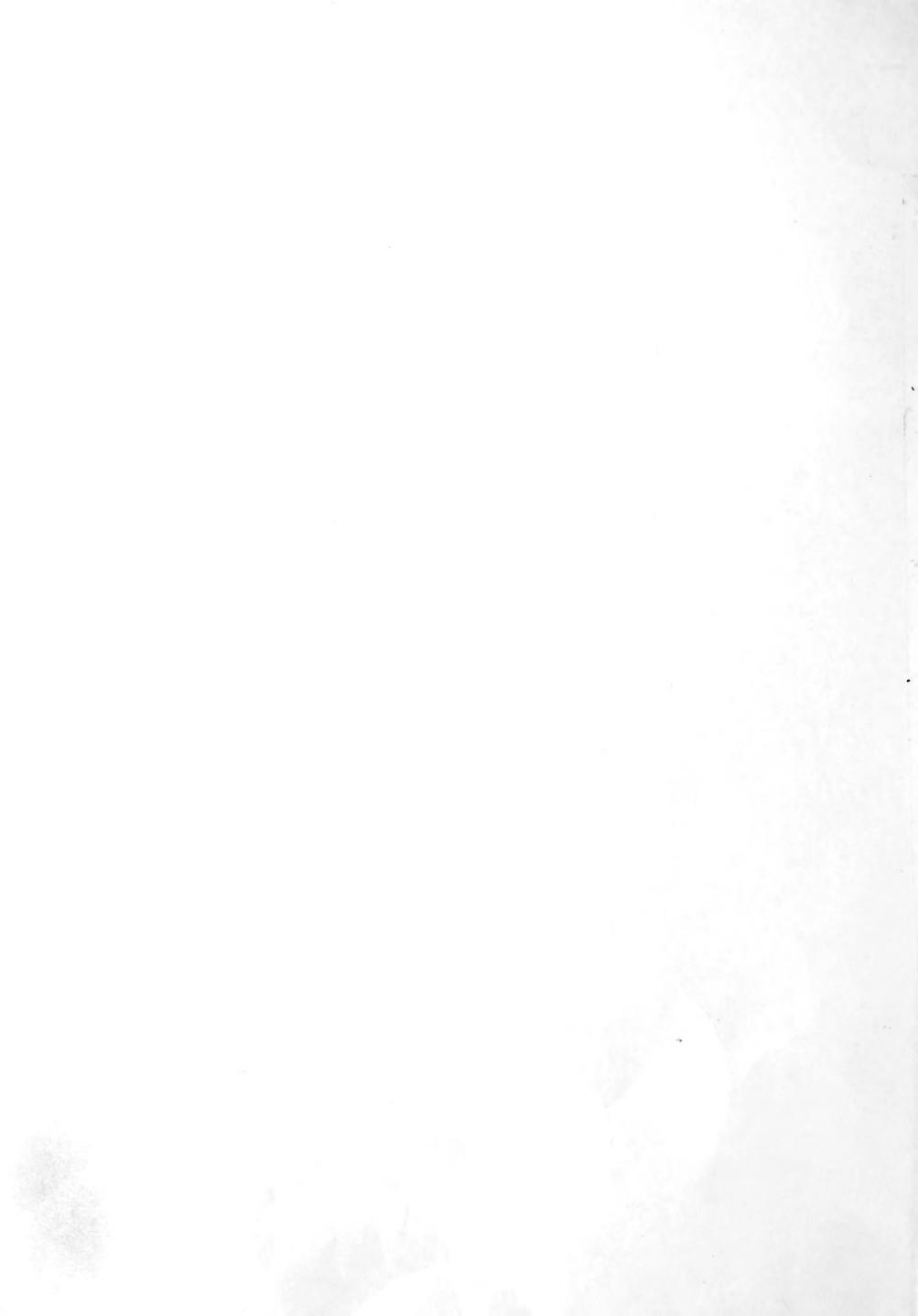
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FILBERT GROV

In that section of the northwest located west of the Cascades we have one of the best nut growing British Columbia line, wherever soil conditions suit.

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often found in other ercharding. The nut trees are vided the grower is sure 'ne has the nerve to cut down long-lived, some orchards in England having been in 10- to 12-year-o'd trees just as soon as they begin to commercial product on for over 200 years. While fil- crowd adjeining trees, for such a spacing accommodates bert trees require cultivation they do not require the 23/4 times as many trees as does the orthodex spacing pampering that is necessary with many other fruits. of 25 feet and UP TO THE TIME THAT THE Their crops are far less perishable. Rain at blessom TREES ARE LARGE ENOUGH TO START CROWDand at harvest is much less dangerous than with ING, THE YIELD PER ACRE IS GOVERNED BY THE other crops. Tainning is unnecessary; spraying a small NUMBER OF TREES PER ACRE, item; pruning not expensive and the filbert grower is being equal. The dangerous feature of this close spacnot harassed by the mad rush that is present in the ing is that so many growers will delay too long the harvest of perishable fruits. A minimum amount of time when they should start removing excess trees. labor and of equipment is required. Cash outlay in producing a crop is very small where one does his ing, where possible, for the fall-planted tree makes some own work, for most of the production costs are labor root development during the winter and is ready to costs.

real sales effort is put behind it? Why import all these winter. nuts when our western nut is so superior?

The wild hazelnut is the only nut native to the northwest. The filbert, its cultivated cousin, will soon to name is very important. The novice in orcharding is become the dominant nut crop of this region.

The pioneer Oregon and Washington filbert plantings were so successful that they inspired the plant- the only one to be planted and that his type of proings of many more orchards. Improved methods of pagation is the only type that will insure success. filbert culture have been developed in recent years; pollenation is better understood, and now a group of and a little knowledge of these different types of new and greatly improved varieties of American origin propagation is essential to the grower before he can are appearing that show promise of taking the places intelligently select his trees. of the older European varieties. With these advantages the man who plants an orchard now has a right to trees propagated from suckers. Then continuous layers expect even better results than were possible with the were used, 5 to 10 new trees being taken from one older planters.

as a holiday treat, are now rapidly entering into the ing" method, which produces one salable tree per lay-every-day diet and as meats become higher in price er. The lighter of these "tip-layers" is, in many nur-

## Soils and Locations

filbert culture in every county west of the Cascade "budded" tree. This tree started from a seed and after mountains and other thousands that are unsuited. Don't a year or two these seedlings are budded over to the plant on questionable soils, for in these days of tough desired varieties in the nursery rows and after a competition only the best located and best cared for year's growth a new trunk of the chosen variety is plantings will be most profitable.

Filberts do best in soils that are well drained, and commercial fertilizers.

# Spacing

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Filberts are generally spaced 25 feet apart, which regions in the world. Here filberts, walnuts and chest-require 10 trees per acre. A few growers are planting at nuts do as well or better than in their ancestral homes. 15 feet apart, with the idea of taking out part of the Filbert orchards are thriving from Medford to the trees, starting at about 10 years of age, when they begin to crowd. This closer planting takes 192 trees Filbert orcharding offers certain advantages not per acre. This is an excellent method of planting, proother conditions

Fall planting is to be preferred to spring plantstart growing earlier than is the spring planted one. The United States imports up to 25,000,000 pounds Filbert trees are available from the nursery some time of filberts annually. This consumption has been reached in November. Plow the land deeply before planting but without any organized effort to increase sales. What den't harrow it down if planted in fall. Leave the will be the consumption of this fine nut when some ground rough and it will weather down during the

#### Selection of Nursery Stock

The selection of sturdy nursery stock that is true easily confused by the eldims of various nurserymen, each claiming eloquently that his strain is

Filbert trees are propagated in various manners

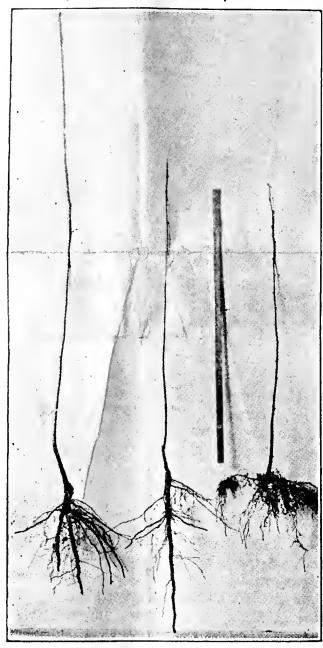
The original orchards of the northwest were from layer. This type of tree was weak and produced too Nuts, which were formerly used almost altogether many suckers so it was supplanted by the "tip-layerthe use of nuts will undoubtedly continue to increase, series, lined out in nursery rows and cultivated a year before being placed on the market. This is then called There are thousands of acres of land suited to a "nurseried" tree. The latest development is the developed. These are called budded trees.

Fine orchards can be found in this region that fertile, retentive of meisture and which are deep enough have been developed from each of these types of propto permit storage of winter rains enough to carry the agation. Some types of propagation have certain adtrees through the dry summer months. If fertility is vantages over others but first class crehards can be low it can be increased by use of cover-crops, manures had from tip-layered trees, from nurseried trees or from budded trees.

porting a heavy top before they themselves are well es- easier and less expensive. tablished. These trees will have suckers like any other filbert tree. The more shallow that they are planted the fewer the snekers, just as with any other type of filbert tree.

The nurseried trees are usually tip-layered trees that have been given an additional year's growth in the nursery row. Having a heavier root system they do not need cutting back when planted in the orchard.

Nature propagates ner trees entirely from seedlings. Nurserymen have long realized that the seedling type of root is preferable to any other type but the filbert budding, which is necessary to transform the



mastered until very recently and the nursery stands are free of the husk. The DuChilly tree is not as large and not yet such as to permit propagation of trees under vigorous as is Barcelona. Some markets will pay a this method as cheaply as in the older tip-layering or premium for DuChilly. DuChilly is especially prized by transplanted methods. The seedling root is much deeper the growers around Vancouver, Washington. Here many growing than that of the other methods of propagation, growers use it as a main commercial crop. In all other as can be seen in the pictures on this page (trees A sections of the northwest, Barcelona is the leading and B C is a layered type of tree.) Budded trees come variety. The principal pollenizers used with DuChilly are from the nursery with straight, unbranched trunks, Daviana, Gassoway and Alpha. Where Barcelona is used like apple and prune trees, which permits the grower as the leading variety Daviana is used to pollenize Duto head the tree at any height he choses. These trees Chilly, for it is also an excellent pollenizer for Barhave a deep root system that enables the young tree celona. In the Vancouver section where DuChilly is

Of the three types of trees mentioned above the to draw from the deeper, more moist stratas of soil tip-layered can be sold for less because it can be right from the day it is planted, thus insuring a quickproduced more cheaply. It should be cut back heavily er first-year growth and a more rapid growth through when planted to releve the roots of the drain of sup- the life of the tree. Suckering of these seedling trees is

#### Filbert Varieties

The matter of varieties is very important. In Oregon the Barcelona has long been the major variety but recently the new Brixnut has been gaining much favor, due to its large size, early bearing and premium returns. In Wasnington the DuChilly and Barcelona varieties are about equal in favor, there being no Brixnut plantings of bearing age in that state as yet. DuChilly, in Oregon, is used only as a pollenizer for Bareelona but in Washington it is planted as a major variety in many cases..

Usually the grower, with a block of each of several varieties, will have a more stable income as it has been noticed that often the heavy crop of one variety hits in a year when one of the other varieties is a little light. Under Oregon conditions we would suggest a planting half of Barcelona and half of Brixnut, the former being pollenized with Daviana, DuChilly and Nottingham and the latter with Halls Giant.

Under Washington conditions, if the grower is sold on DnCaally we would split the planting into three major varieties, pollenizing the DuChillies with Alpha and Gassoway.

As new varieties are offered it is advisable to plant a few of each for test purposes. There are a lot of very promising new varieties of American origin being tested cut now and from these will undoubtedly come new var eties greatly superior to the old European varieties that now dominate our plantings.

None of our filbert varieties are commercially self-fertile. It is necessary that we plant certain mixtures of varieties in order that we may have pollenution. These varieties which we plant in order to make onr principal varieties bear are called pollenizers. They also bear nuts but are not usually heavy bearers.

Barcelona is the most planted variety in the northwest. It is a large, round nut that drops freely from its husk. This self-lusking quality is a valuable one. Barcelona makes a large tree and bears early when properly pollenated. Daviana, DuChilly and Nottingnam are all pollenizers for Bar elona. By using several pollenizers we extend the pollen flow over a much lenger period than is possible with a single variety, thus catching the early as well as late Barcelona blos-

Duchilly is the variety second in importance a present. It is a long nut. This variety is only partially seedling over to the desired variety, has not been self-husking, 40 to 50 per cent of the nuts falling

more heavily planted. Alpha and Gassoway are used ord breaking yields and leave the impression that the for pollenizers.

Brixnut is a round nut of the Barcelona type, tre shows promise of taking the lead away from Barce- produced 16 pounds of nuts; an eight-year-old tree at lona, being the most promising nut of American origin. Woodburn produced 35 pounds. It is a larger nut than Barcelona and commands a premium over Barcelona in the same markets. Brixuut green nuts from two six-year-old trees; four to eight is self-husking. It is pollenized by Halls G ant, which pounds from five-year-old trees and half to one pound is also a self-husking round nut. The two varieties are from four-year-old trees. that similar in appearance that they can be harvested together as a single variety. Our other filbert varieties pounds per tree the fourth year; 5½ pounds the fifth must be kept separate at harvest because of diversity year; 9 9 10 pounds the seventh year and 8 pounds of shape. It is claimed by growers that this variety the ninth year. This orchard is a very ordinary one. will not produce over 2 per cent blanks where pollenized with the proper strain of Halls Giant. Brixnut produced 150 pounds of filberts one season. bears early and is a rank grower when budded on Bar- orchard trees 20 to 25 years old have celona seedling roots.

long type. It makes a handsome, large, upright tree seme of these exceptional trees. and is a large producer of pollen. It is an excellent pollenizer for both DuChilly and Barcelona but is a shy lenizers, produced 560 pounds from 1000 trees. Anbearer itself.

filbert tree that has beautiful purple leaves. It is of no trees have produced as much as 12 pounds. Growers

It produces a medium to small size nut but of fine Brixnut invarably outyields the Barcelona. qual ty. It is thin shelled and is self-husking. It will replace some of the non-husking Barcelona pollenizers when it is produced in greater quantity by the nur- to 16 cents per pound for Barcelonas, 2 to 3 cents more series. No commercial supply of this var ety has been for DuChillies. About 50 per cent of the Brixnuts grade available due to the fact that there were so few ont in the Jumbo grade, which is larger than the largest mother trees from which to obtain layers. Now that Barcelona grade. This grade has brought 5 to 7 cents the budding of filberts has been mastered by a few of premium to the Brixnut growers. the nurseries this and other scarce varieties will rapidly become available.

poses for the first time this season. Long type of nut. drained, fertile, retentive of moisture and fairly deep. Larger than DuChilly and much more free-husking. those regions where DuChilly does best. Blossoms late veloped from tip-layered trees, from like DuChilly.

Its nuts are smaller than Brixnut but average as large propagation while the newer varieties are er a little larger than Barcelona. The nut is a round largely in the budded type of tree. type, resembling Brixnut enough that the two varieties can be harvested and marketed as one variety without varieties being planted in Oregon, while in Washington spoiling appearace of the pack. The nut is self-husking, these two varieties and DuChilly are used. The tree is a vigorous, upright growing type. The catkins usually show their pollen too late to pollenize but to less extent, have heavy and light crops, it is Barcelona but are perfectly timed for Br xnut.

bearer. One of the best DuCnilly pollenizers available.

Gassoway is a heavy producer of pollen and is used average grower will duplicate such yield. to pollenize DuChilly. Nut small and worthless.

### Yields

The yield per acre, the price per pound, the cost of nuts from 490 trees or nearly 21/2 pounds per tree. of production and the age of profitable bearing are all important matters to the prospective grower. Yield is none too productive, bore 300 pounds the fourth varies greatly, with a hundred different factors in year; 600 pounds the fifth year and 2000 pounds the fluencing it. We give below a number of performance sixth year. records, mostly from orchards of very ordinary production. It is not our purpose to cite simply a few rec- old that are still producing a ton of nuts per acre. It

pounds from 23/4 acres 10 years old.

A planting near Aumsville produced six pounds variety originating in Oregon. It is a variety that per tree the sixth year. A five-year-old tree at Eugene

An Independence grower reports 15 pounds of

A four-year-old erchard at Albany produced four

One large tree in Portland is claimed to have pounds per tree. Of course one cannot expect the Daviana is a handsome nut of the DuChilly, or average of any orchard to reach the peak yields of

One three-year-old Brixnut orchard, without polother of 800 trees produced 65 pounds the third year Purple Aveline is an ornamental, small growing and 1000 pounds the fourth year. Single five-year-old value commercially but is much used in landscape work. with Brixnut and Barcelona plantings growing side Nottingham is an excellent pollenizer for Barcelona by side, under identical conditions, report that the

#### Returns

Before the depression the growers were netting 14

#### Summary

- 1. Filberts can be grown all through the territory Cowlitz is a new variety offered for test pur- west of the Caseade mountains where the soil is well
- 2. There are three types of filbert trees offered Good quality and recommended for trial, especially in that are safe to plant. Fine orrhards have been detransplanted nurseried trees and from budded trees. The older Halls Giant is planted as a pollenizer for Brixnut. varieties may be had in either of the first two types of
  - 3. Barcelona and Brixnut are the two commercial
  - 4. Due to the fact that filberts, like other fruits well to plant more than one variety commercially on Alpha is a DuChilly type nut, but not a heavy the theory that the heavy year of one variety often comes on the light year of the other.

A four-year-old orchard near Salem, grown on newly cleared, river bottom soil produced 1200 pounds

A Barcelona orchard of 6 acres, on hill land that

In Kent, England, there are plantings 200 years

per acre, wale most of the better growers get 2000 lenizers, the supply of which has been short in the pounds and a few record crops have reached

A Gaston grower grew \$50 worth of filberts from Cewltz, on budded roots. 85 trees the fourth year. A Dallas grower reports 2780

pollenized by Alpha, Gassoway and Daviana.

can grow them commercially.

in price and be ready to cash in when prices raise.

eral other promising varieties that we are not offer-leties. <u>.</u>

is said that the average for England is 1000 pounds ing the trade this year, and to the propagation of pol-4000 past. Tais year we offer Alpha, Gassoway, Daviana, Nottingham, Halls Gant as well as the Brixnut and

The grewer who is confused by the claims of 5. All f.lberts require pollenizers. Never plant a various nurserymen as to the merits of various types of single variety alone and expect crops. Barcelona is propagation, will do well to settle the matter in his pollnized by DuChilly, Daviana, Nottingham and Mont- own mind by making a comparative planting of the ebello. Brixmit is pollenized by Halls Glant. DuCnilly is various types. Pearcy Bros. nursery recognizes merits in each of the various types of trees and offers trees 6. Filberts are the most attractive orchard crop to of all three types to the trade so that it is not necesplant in the northwest. No ether section of America sary for us to build up a high powered line of sales talk designed to push any particular type of tree and 7. In the times of depression prepare for prosper- to knock all other types. We believe that the budded ity. Plant now while land, labor and trees are down tree makes the best type of tree but it is more expensive as yet, and only the newer varieties of felberts are We believe that in time, when budding technique being propagated in this manner to any extent as yet. improves to the point where budded trees can be sold While we believe that the budded tree is superior, at as cheaply as other types of trees, that this type will the same time we know that fine orchards can be entirely supplant the other methods of propagation, developed from the other types of trees and it is only At present we are confining our budding largely to these other types that are available today in comthe newer varieties such as Brixnut and Cowlitz and sev- mercial quantities in the Barcelona and DuChilly var-

# Write for Prices

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